KRAKAN, IN. A.

R. Protas, In. A. Krakan, and P. Kh. Pruss, "The sensitivity of photographic layers and the dimensions of emulsion crystals," P. 824.

Investigations were made on the influence of the concentration of silver bromide, ammonia and potassium bromide at the moment of formation of the dispersion phase upon the dimensions of the crystals and upon the sensitivity of the layer. It is established that they depend differently on the conditions of the synthesis of emulsions.

The State Optical Inst. of Leningrad (Order of Lenin) December 9, 1947

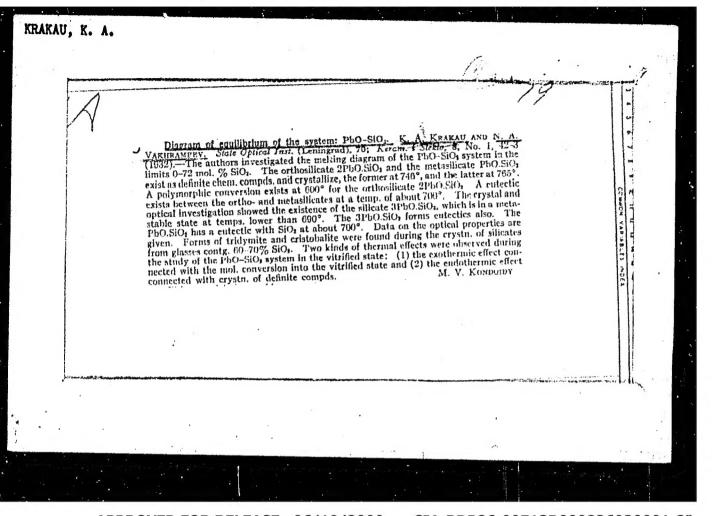
SO: Journal of Applied Chemistry (USSR) 21, No. 8, August (1948)

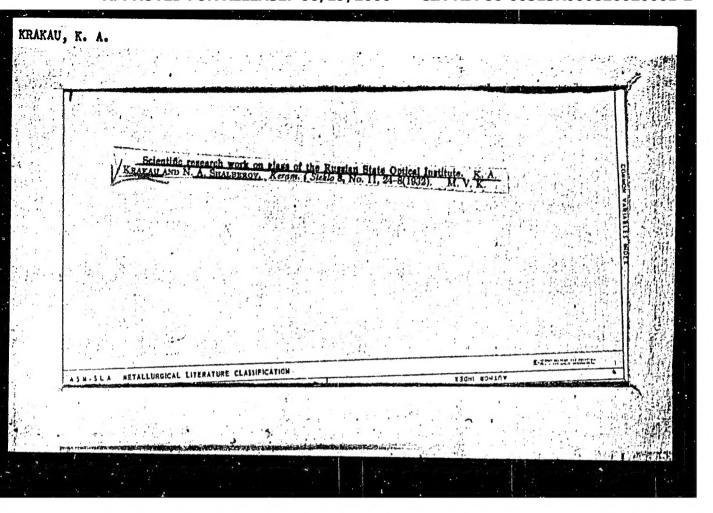
KRAKATIESA, V.V. [Krakatytafa, V.V.]

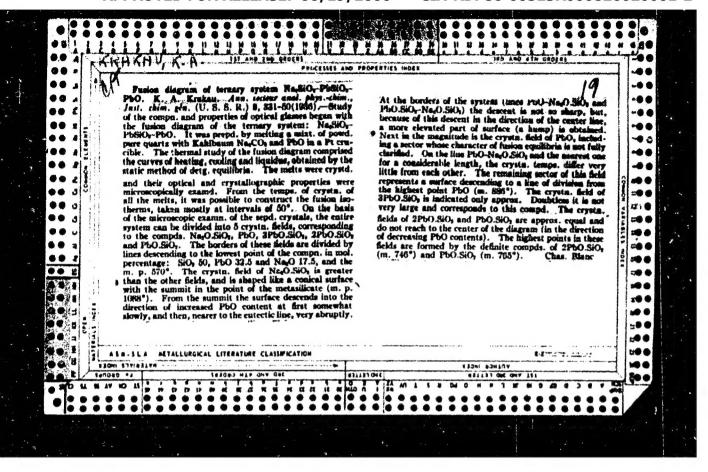
Electrituation and abundance of larvae and fry of the mullist Mullius barbatus justicus Easigny in the hypersuatem of the Bhack Sea.

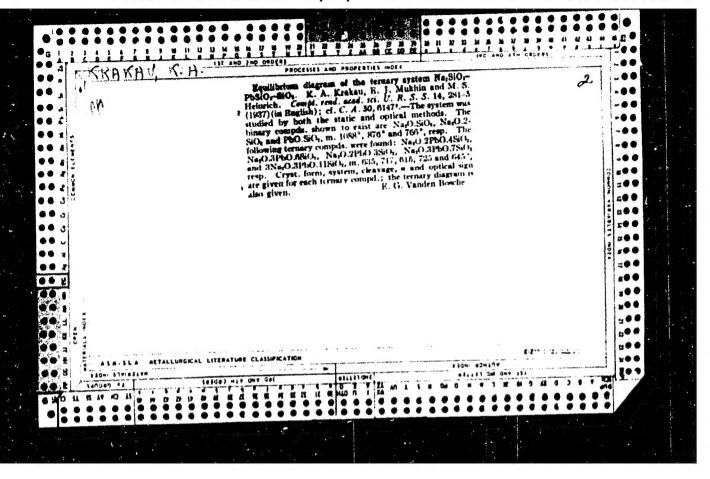
Nauk.cap.Od.biod.sta. nc.55162-103 164.

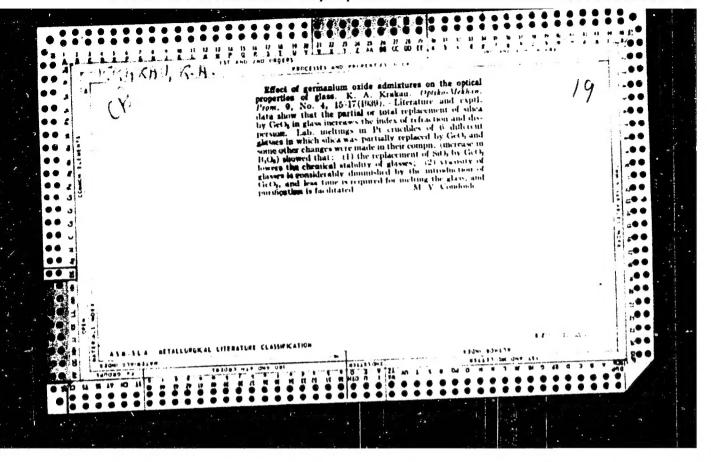
(MIRA 18:1)









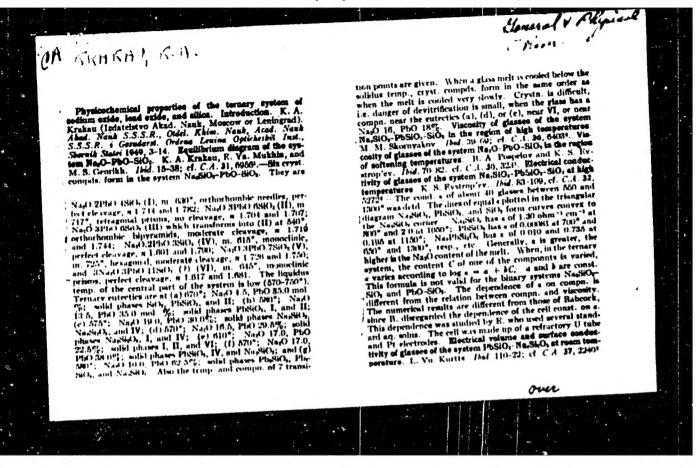


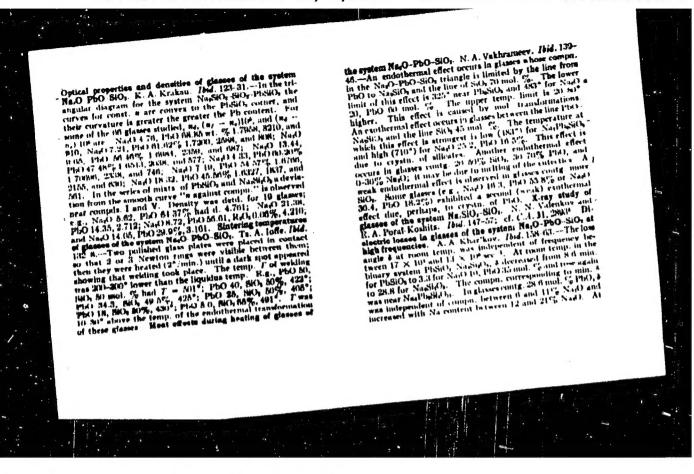
ERAKAU, Y. A. and others

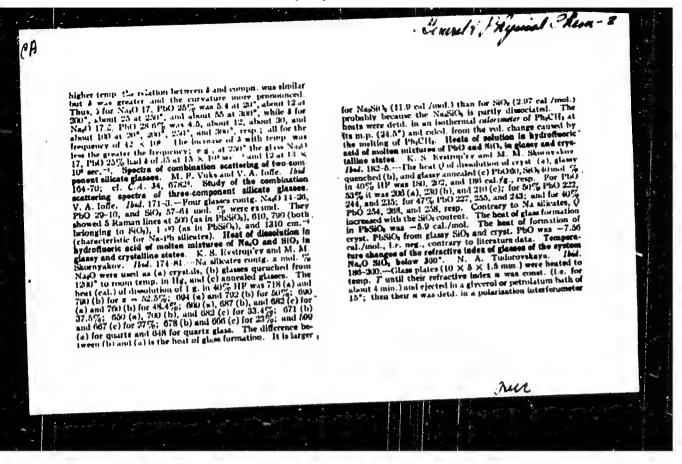
Fiziko-khimicheskiye svoyatva troynoy sistemy-okis' natriya-ckis' svintsa-kremezem.

Moscow 1949. 219 p.

Collection of articles on equiliborium, viscosity, electric conductivity, density, etc., of above mentioned compounds; published by Academy of Sciences, USSR.







in comparison with identical plates not subjected to host-treatment. Heat-treatment had no effect on n of the glass (I) NagO 32.4, 804, 63.5, R.O. 6.1 mol. %. Glasses made of NagO 20.0, 804, 71.0, R.O., 21.5% (glass II) and NagO 18.0, 804, 71.0, R.O., 21.5% (glass II) and NagO 18.0, 804, 71.0, R.O., 21.5% (glass II) and NagO 18.0, 804, 72.6% (glass III) showed a decreasing when I faces and 3 regions of a decreasing on a temp, increase The latter were observed between 85 and 120°, 180 and 365°, and 180 and 210°, 1e near the transformation temps, in trisiquity (117 and 165°) and evoluntion temps, in trisiquity (117 and 165°) and 170° for III. It which contained no free 800s, had an invariable in Heat-treatment of SiOs glass had no effect on a helow 210°, but between T = 210° and 20° a decreased by 70 × 10°°; this decrease remained coust, at higher T up to 300°. This effect was caused by transformation of crysto-balite. Between T = 140 and 165°, a after a shorter (1-2 onto 16 and 410° and 410° and 410° about 20° (1-2 onto 16 and 410° and 410° about 20° (1-2 onto 16 and 410° and 410° about 20° (1-2 onto 16 and 410° and 4

occurred between 410 and 450°. On the contrary, glasses conts, free SiC₃ had a first increasing with temp.; thus a of Na40-27, 8iC₃ 73°% was at 430° by 4 × 10° greater than at 20°; between 43° and 450° the a rapidity decreased. The Na40-23, 8iC₃ 77°% glass had a increasing between 20° and 450° more rapidity than the previous glass as it had more free SiO₃; its region of rapid decrease of a was between 450 and 515°. Ph siticates had a first rapidly increasing with temp, the increase being more rapid the higher the Ph content. Phus the 190.56, 80°, 80°, 60°% glass had a at 40° by 75 × 10°° greater than at 20°. The region of rapid decrease of a was between 450 and 40° for the 190.35, 80°, 60°%, and 40°-40.5° for PhO 35, 80°, 60°%, at temps, above this region the glasses became the equilibrium diagram and the physicochemical properties of glasses in the system NaO-PhO-SiO₄. K.A. Krakau. *Ibid.* 311-19.—If some graphs given in the previous papers are redrawn, it is seen that the viscosity in the system NaSiO₂-SiO₃ (liquid) have a kirsk or a hump near the company NaSiO₃, in the system PhSiO₂-NaSiO₃ a kirsk near 21°-80°, NaSiO₃, in the system PhSiO₂-NaSiO₃ a kirsk near 21°-80°, NaSiO₃ in the system PhSiO₂-NaSiO₃ a kirsk near 19°-90°, NaSiO₃ in the current of compal. NaO 31°-0.78°O, has a mater of weight country in the aminum at NaO 21°-0.38°O, NaSiO₃, and the current of compal. NaO 21°-0.78°O, has a mater the current of a spaint compan, in the aminum parange. The election of compal and the current of the presence of chem. compal, can be detected also above their m.ps.

NIKITIN, A.I., prof., otv.red.; DOBYCHIN, B.D., prof., zam.otv.red.;

ABRAMOV, K.T., kend.med.nouk, red.; KAZANTSEV, A.I., prof.,

red.; TIMOFEYEV, S.I., prof., red.; KHODOS, Kh.B., prof., red.;

BOLOTOV, M.P., prof., red.; SHERSHNEV, P.A., prof., red.;

VAYS, S.I., prof., red.; KLIMOV, K.A., dotsent, red.; SEMENOV,

V.V., dotsent, red.; DONSKOV, V.V., dotsent, red.; KARNAKOV,

B.I., dotsent, red.; KRAKAU, S.I., red.

[Collection of works of the Irkutak State Medical Institute devoted to its 40th anniversary] Sbornik trudov Irkutakogo gosudarstvennogo meditainakogo instituta, posviashchennyi 40-letiiu so dnia ego osnoveniia. Irkutak, 1959. 442 p.

(MIRA 14:1)

1. Russia (1917- R.S.F.S.R.) Ministerstvo zdarvookhraneniya.

2. Zaveduyushchiy kafedroy normal'noy fiziologii Irkutskogo meditsinskogo instituta (for Nikitin). 3. Zaveduyushchiy fakul'tetskoy khirurgicheskoy klinikoy Irkutskogo gosuderstvennogo meditsinskogo instituta (for Dobychin).4. Zaveduyushchiy kafedroy biokhimii Irkutskogo meditsinskogo instituta (for Shershnev). 5. Zaveduyushchiy kafedroy propedevtiki vnutrennikh bolezney Irkutskogo meditsinskogo instituta (for Karnakov).

(MEDICINE)

SHORYGIN, Andrey Pavlovich; KRAKAU, T.K., dots., retsenzent; GOMOYUNOV, K.K., retsenzent; DANILOVA. V.V., red.

[Magnetic elements of computers] Magnitrye elementy vy-chislitel'nykh mashin. Moskva, Vysshaia shkola, 1965.
335 p. (MIRA 18:11)

l. Leningradskiy politekhnicheskiy institut im. M.I.Kalinina (for Krakau). 2. Kafedra inzhenernoy elektrofiziki Moskovskogo energeticheskogo instituta im. Molotova (for Gomoyunov).

GOMOYUNOV, Konstantin Konstantinovich; KRAKAU, T.K., red.

[Digital components; manual for a course in "Elements of digital devices"] Elementy diskretnogo deistviia; uchebnoe posobie po kursu "Elementy ustroistv diskretnogo deistviia". Leningrad, Leningr. politekhn. in-t im. M.I.Kalinina, 1965. 270 p. (MIRA 18:12)

LEVITIN, E. A., GIRSHCORN, Sh. I., KRAKAU, V. K., and PEVELOV, V. P.

"Radio-Receivers", published by State Cooperative Publishers, Moscow, 1949

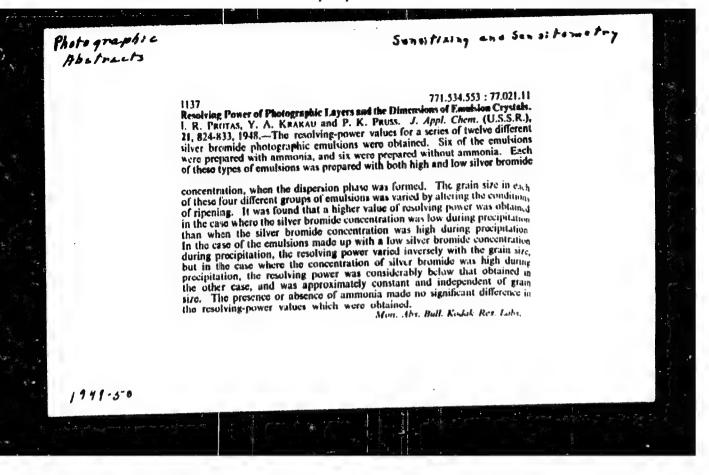
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020001-2"

KRAKAU, YU.A.

The resolving power of photographic layers and the dimensions of the smulsion crystals 1. R. Protax, Yuzan A. Krakau, and P. Kli. Pritis Zhur. Priklad. Khim. Protax, Yuzan A. Krakau, and P. Kli. Pritis Zhur. Priklad. Khim. Protax, Yuzan A. Krakau, and P. Kli. Pritis Zhur. Priklad. Khim. Protax Pritis Particle size distribution, photographic sensitivity S. contrast coeff. C. fog d., and resolving power R, were deld, for 4 series of emissions, the last 2 prepol. with, the other 2 without, NH. The compus. of the layers immediately after emulsification were in series I, gelatin 5%, Aghr 0.075 and 0.15, 0.75 and 1.160 mol./1.; II, gratin 1.0%, Aghr 0.75, KBr and NH, a. 6.0075 and 0.15, 0.75 and 1.160 mol./1.; III, gelatin 1.0%, Aghr 0.3, KBr and NH, as in I; III, gelatin 1.0%, Aghr 0.3, KBr and NH, as in I; III, gelatin 1.0%, Aghr 0.3, KBr and SH, as in III. After ripening, and before posturing, emulsions I and II constained 12% gelatin, Aghr 0.33 mol. i. Microscopic dispersion analysis showed that, at const. Aghr concur, the increase of its only, at the moment of emulsification, brought about by increased comen. of NH, or KBr or both, results in increased crystal size, and, at the same time, increased S and decreased C. However, the accepted and expected comomitant decrease of R was observed only in series I and III, I.e. when Aghr was pild from dl. solns, not in II or IV, where R varies very little despite the great variation of the mean grain cross-section, 0.07 0.7 % in II and 0.20 1.21 % in IV. Grain

size distribution curves of emulsions prepd, with close concus, of NH₀ and KBr are similar. In I and H₁ 8 increases with the grain sire, the 2 series showing differences only in the case of course emulsions; among these, emulsions in which AgBr was pptd, from a larger vol, have the greater S. In HI and IV 8 increases only very slightly with the grain size, and the curves of 8 as a function of the grain size are almost identical for the 2 series. C falls with increasing grain size, faster in I and II than in HI and IV 8. At equal compos of the medium, C is the lower, the smaller the vol. from which AgBr was pptd. Under otherwise identical conditions, R is substantially higher in I and HI than in HI and IV, and the difference is the more marked the finer the grain of AgBr. The grain size is mainly detd, by the concur. of NH₂ and KBr in the emulsion, but is in no way agnificantly affected by the vol from which AgBr is pptd., i.e. by the very factor which has a detg. influence on R. Fits refutes the generally accepted direct relation between small grain size and high R. It is possible to prope candsons of identical grain size and identical R.

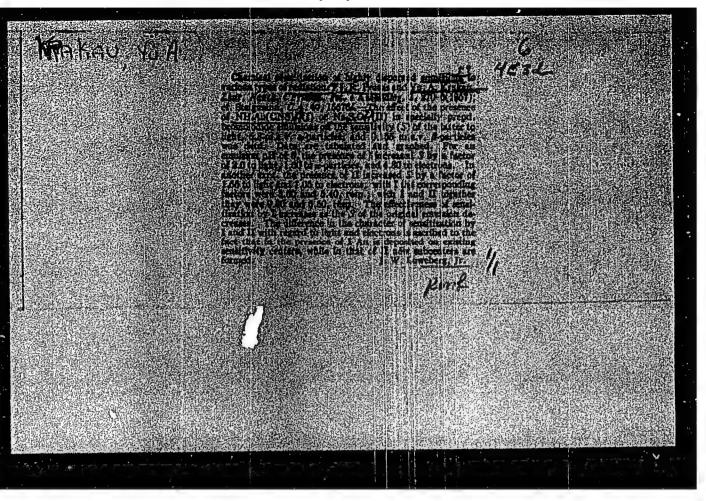
Seningrad State Option that



WThe Size and Form of Crystals of a Silver Halide in Photographic Emulsions, Thur. peik. khim., 22, No.8, 1949

KRAKAU, Yu. A.

"Thickness of Emulsion Crystals and Resolving Power of Photographic Emuslions," Zhur. pril. khim., 22, No.9, 1949



PROTAS, I. R., KRAKAU, Yu. A. and SIDORENKOVA, P. T. (USSR)

"Etude de La Sensibilisation Chimique Des Emulsions Nucleaires."

paper presented at the Second Intl. Colloquium on Corpuscular Photography.

Montreal, 21 Aug - 7 Sep 1958.

Encl: B-3,114,647.

PROTAS, I.R., KRAKAU, Yu.A., SIDORENKOVA, P.T.

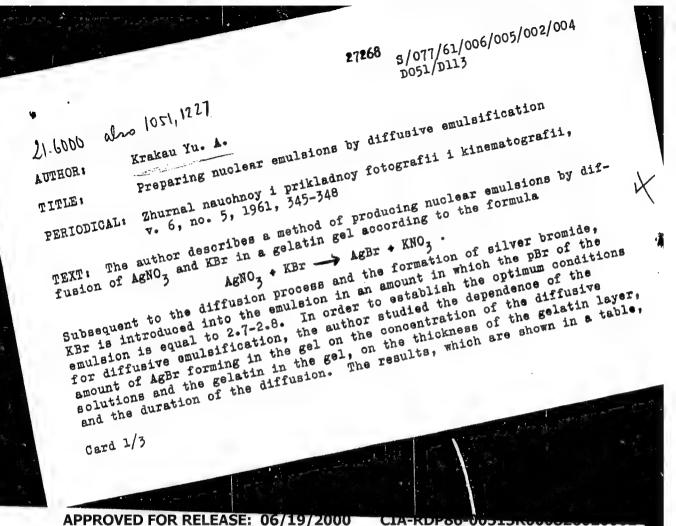
Role of thiocyanogen ions during the chemical sensitization of photographic emulsions with gold. Usp.nauch.fot. 7:87-95 '60.

(MIRA 13:7)

(Photographic emulsions) (Photographic chemistry)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826020001-2



27268

Preparing nuclear emulsions

\$/077/61/00%/005/002/004 D051/D113

prove that the best conditions for diffusive emulsification will be obtained when 2 M of KBr and AgNO, solutions are diffused within 5 minutes in a 3% and approximately 0.8 mm thick gelatin gel. In this case, the amount of AgBr in the layer will reach about 85%. The dispersive characteristics of the obtained emulsions were examined by electron microscopic recording of the AgBr microcrystals (linear magnification: 4000). The results of these investigations are also shown in a table. The observed phenomenon of polydispersion can be limited by introducing erythrosine into the gel. A further characteristic of the obtained emulsions is low sensitivity. They are suitable for recording heavily ionizing particles, e.g. Po alpha-particles. The results of attempts to increase their sensitivity by using sensitizers are given in another table. The author thanks A.L.Kartuzhanskiy for his help. There are 3 figures, 3 tables and 10 references: 7 Soviet and 3 non-Soviet-bloc. The 3 references to English-language publications read as follows: W.Markocki, Sci. et inds photogr., 1959, 30, 177; J. Colomer, Ch. Shoebel, Sci. et inds photogr., 1958, 29, 449; P. Demers, Phys. Rev., 1946, 70, 86.

27268

S/077/61/006/005/002/004 D051/D113

Preparing nuclear emulsions

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S.I. Vavilova (State Optical Institute im. S.I. Vavilov)

SUBMITTED:

October 26, 1959

Card 3/3

PROTAS, I.R.; KRAKAU, Yu.A.

Coagulation of photographic emulsions with sodium sulfate. Zhur.nauch.i prikl. fot.i kin. 6 no.6:404-407 N-D '61. (MIRA 15:1)

1. Gosudarstvennyy opticheskiy institut imeni S.I. Vavilova. (Photographic emulsions)

An example of handling castings in an agricultural machine factory. Podnik organizace 17 no.1:27 Ja '63.

Analysis of the handling of materials with regard to the kind of work and worker qualification. Tech praca 15 no.4:281-283 Ap *63.

1. Technicko-organizacni vyzkumny ustav strojirensky, Praha.

Importance of the worker's movement study for modernization of the handling of material. Podn org 18 no.5:212-215 My '64.

1. Research Institute of the Machine Industry Technology and Organization.

1

Handling of materials in France. Podn org 18 no.2:91-95 F:64

1. Technical and Organizational Research Institute of the Machine Industry.

"Handling of materials in the heavy machine industry" by J. Vejchoda, M. Rejman, V. Libal. Reviewed by Vladimir Krakes. Podn org 18 no.8:383-384 Ag *164.

Equipment for the handling of material at the 1964 Brno fair. Podn org 18 no.12:554-557 D '64.

1. Research Institute of Mechanical Engineering and Economics. Prague.

Organization and control of handling of materials in the Renault Factory. Podn org 19 no.2:89-92 F '65.

1. Research Institute of Mechanical Engineering and Economics, Prague.

GUS'KOV, B.S.; KRAKHIN, A.G.

Wear of cutters and surface smoothness in fine boring of cast-iron bushings on diamond boring machines. Stan.i instr. 33 no.5:31 My '62. (MIRA 15:5)

(Drilling and boring)

GUS'KOV, B.S.; KRAKHIN, A.G.; BEREZOVSKIY, G.P.

Boring bar with mechanical fastening of ceramic tips for a diamond boring machine. Stan.i instr. 34 no.3:34 Mr '63.

(MIRA 16:5)

(Drilling and boring machinery)

CIA-RDP86-00513R000826020001-2

GUS'KOV, B.S., kand. tekhn. nauk; KRAKHIN, A.G., inzh.

Dimensional strength of hard-alloy cutting tools and surface roughness in fine boring of cast-iron parts. Mashinostroenie no.1:25-27 Ja-F *63. (MIRA 16:V)

 Odesskiy tekhnologicheskiy institut im. Lomonosova. (Drilling and boring)

المنتفظ المنافظ والمعارض المراجع

ACCESSION NR: AP4043975

\$/0121/64/000/008/0023/0024

AUTHOR: Krakhin, A. G.; Gus'kov, B. S.; Berezovskiy, G. P.

TITLE: The use of TsM332 cutting tools in fine boring

SOURCE: Stanki i instrument, no. 8, 1964, 23-24

TOPIC TAGS: boring tool, TsM332 alloy, fine boring mill, T30K4 alloy, cutting speed, cutting feed, surface finish, ceramic tip, ceramic tool

ABSTRACT: One-piece boring tools were made of TsM332 alloy by the Moskovskiy kombinat tverdy*kh splavov (Moscow Combine of Hard Alloys). Tools, 6, 8, and 12 mm in diameter and 20 mm long, were sintered to RA 91—91.5 and were ground with a diamond wheel to: $\dot{\psi}=60^{\circ}$, $\psi_1=15^{\circ}$, $\gamma \approx 3^{\circ}$, $\alpha \approx 12^{\circ}$, $\lambda \approx 0^{\circ}$, r=0.3 mm. In operation they were held in a boring bar 25 mm in diameter, made of steel 45. They were tested on 55 x 20 mm bushings with internal diameters of 29—35 mm, made of steel 45. It was desired these tools be compared with those made of T30K4 alloy. The tests determined tool wear at cutting speeds v=200—375 m/min, the wear at the feeds s=0.015—0.075 mm/rev, and also the

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ACCESSION NR: AP4043975

surface roughness obtained at the depth of cut t = 0.1 mm and v = 320 m/min. The wear sustained by the cutter in a given length of cut was determined indirectly by measuring the taper of the bushing hole. The thermal elongation of the tools was found to be negligible due to the short machining time. These experiments proved that, under the given conditions, the use of one-piece cutters of TsM332 alloy eliminated the losses related to brazing or mechanical fixing of standard tips and that they withstood a cutting speed twice as high as that tolerated by T30K4-alloy tools (see Figs. 1 and 2 of the Enclosure). The new tools also produced a surface finish dependent only on the tool geometry and practically independent of the cutting speed. The optimal conditions for the TsM332 tools are: v ~ 280-320 m/min, t = 0.1 mm, and s = 0.045 mm/rev. To prevent chipping they should be disengaged from the metal before being withdrawn from

ASSOCIATION: none

SUCHITTED: 00

SUB CODE:

Card 2/3

ATD PRESS: 3083

NO REF SOV:

ENGL:

OTHER: 000

KRAKHIN, N.S.; VARAKSIN, V.N.; STUDENTSOV, V.I.

Pre-cast reinforced-concrete timbers in the mines of East Kazakhstan. Gor.zhur. no.3:70-71 Mr '60. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel skiy institut tsvetnykh metallov, Ust!-Kamenogorsk (for Krakhin, Varaksin). 2. Lenino-shakhtostroyu-pravleniye (for Studentsov).

(East Kazakhstan Province-Mine timbering)

VORONIN, V.S.; KRAKHIN, N.S.; SHILKIN, P.I.; PUSTOVALOV, A.I.

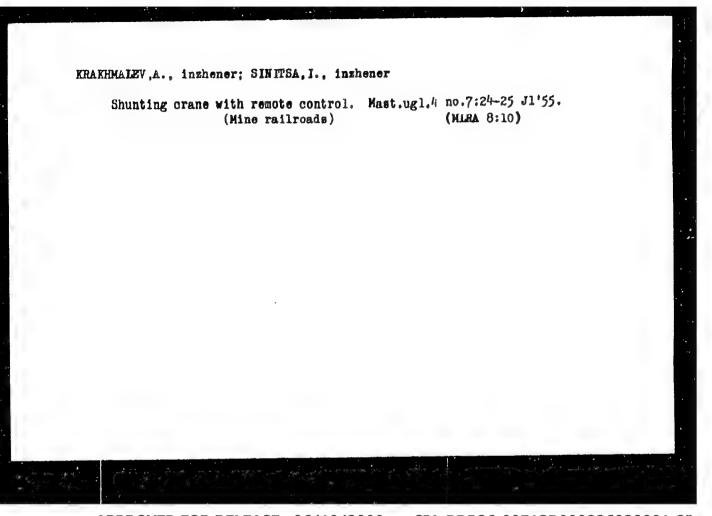
Supports with a sprayed concrete foundation. Gor. zhur. no.1:17-22 Ja '62. (MIRA 15:7)

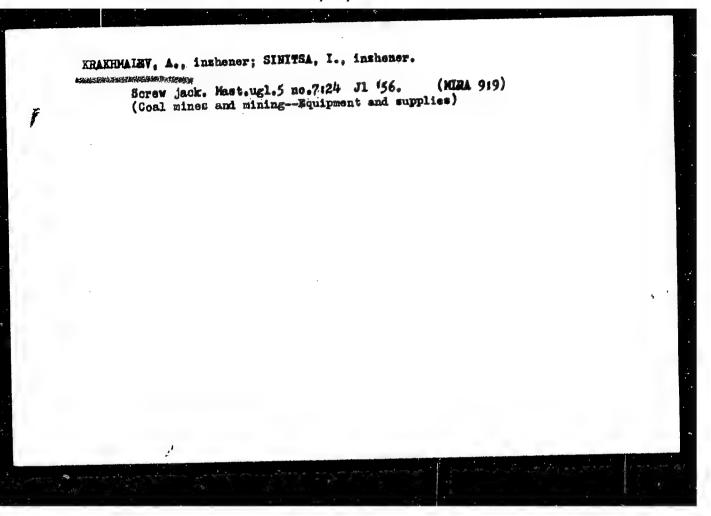
1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov, g. Ust'-Kamenogorsk (for Voronin, Krakhin, Shilkin).
2. Maslyanskiy rudnik (for Pustovalov).

(Mine timbering) (Concrete)

BEREZOVA, Ye.; BORODULINA, Yu.; BUSHUYEVA, P.; GEL'TSER, F.; GOLIKOV, V.; DOROSINSKIY, L.; KOZLOVA, N.; KRAKHIN, P.; KRUGLOV, N.; IAZAREV, N.; LAMPOVSHCHIKOV, P.; MAKAROVA, M.; MARKOVA, Z.; NESTEROVA, Ye.; PROKHOROV, M.; SOROKINA, T.; STARYGINA, L.; KHUDYAKOV, Ye.

Ivan Il'ich Samoilov; obituary. Mikrobiologiia 28 no.2:318-319 Mr-Ap '59. (MIRA 12:5) (SAMOILOV, IL'IA IL'ICH, 1900-1958)





APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020001-2"

Improve the performance of underground transportation. Mast.ugl. 5 no.10:14-16 0 '56. (MLRA 9:12)

(Goal handling) (Mine hauling)

OSTROVSKIY, S.B., KRAKHMALEV, A.A.

Improving mine haulage is an important condition for increased coal extraction. Mekh.trud.10 no.3:13-17 Mr '56. (MLRA 9:7)

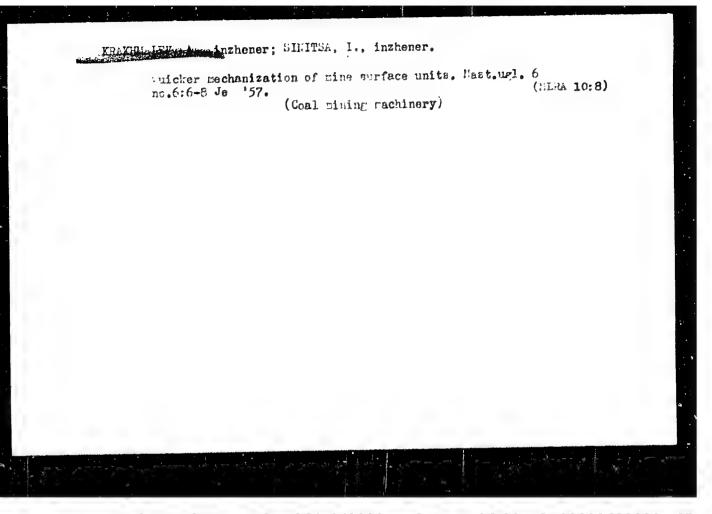
1.Ministerstve ugel'ney promyshlennesti USSR.
(Mine haulage)

KRAKHMALEV, A.A., inzhener.; SINITSA, I.V., inzheher;

Safety appliances used in slope mining. Bezop.truda v prom. 1 no.3:10-12 Mr '57. (MIRA 10:4)

(Coal mines and mining-Safety measures)
(Mine haulage)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020001-2



KRAKHMALEV, A.A., gornyy inzh.

Conveyer hauling of coal in inclined mine workings in the Lugansk
Economic Region. Ugol' Ukr. 3 no.2:32-33 F '59. (MIRA 12:3)

(Lugansk Province-Mine haulage)

(Conveying machinery)

VIRABOV, Armenak Arkad'yevich; LEONOV, V.A., kand.tekhn.nauk, retsenzent; KRAKHMALEV, A.A., retsenzent; KOLOMIYTSZV, A.D., otv.red.; SABITOV, A., tekhn.red.; PROZOROVSKAYA, V.L., tekhn.red.

[Operator of machines and mechanisms for underground mine haulage]
Mashinist shakhtnykh mashin i mekhanismov podzemnogo transporta.
Moskva. Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. 1960.
219 p. (MIRA 13:7)

(Mining machinery)

KRAKHMALEV, A.A., gornyy inzhener Effect of the methods and means of transportation on the crushing of coal. Ugol' Ukr. 5 no.12:16-18 D '61. (MIRA 14:12) (Coal—Transportation)

KRAKHMALEV, A.A., inzh.

Determining the degree of treaking up of run-of-mine anthracites in relation to the nature of treaking strains. Izv. vys. uchet. 2av.; gor. zhur. 5 no.1:16-20 '62. (MIRA 15:4)

l. Institut gornogo dela imeni M.M.Fedorova AN USSR. Rekomendovana institutom gornogo dela AN USSR. (Coal--Testing)

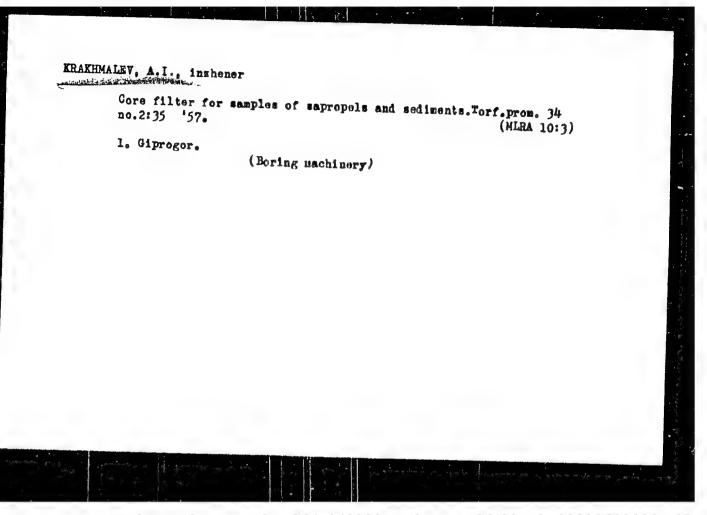
KRANHMALEV, A.A., starshiy nauchnyy sotrudnik

Study of the processes of anthracite coal breakage during its haulage in pines. Izv.vys.ucheb.zav.; gor. zhur. 6 no. 12: 124-131 163. (MIRA 17:5)

1. Institut gornogo dela AN UkrSSR imeni M.M.Fedorova.

BARINGV, A.; LYUBENKO, G.; BAGMUT, S.; VIRABOV, S.; MALIOVANOV, D.I., kand. tekhn. nauk; KRAKHMALEV, A.A., kand. tekhn. nauk (Donetsk)

Concerning the book "Layout of mine buildings and strip mines." Ugol' 39 no.3:77-78 My'64. (MIRA 17:5)



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020001-2"

Apparatus for boring test holes in bogs. Torf.prom. 34 no.5:32-33 '57. (MIRA 10:10)

1. Giprogor. (Peat bogs) (Boring machinery)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020001-2

Stabilization of quicksands. Ugol' 35 no. 12:53-54 D'60.

(Soil stabilization)

(MIRA 14:1)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020001-2"

KRAKHMALEV, A.I., insh.

"Exchange of experience between enterprises of the Economic Councils. Torf.prom. 37 no.4:34-35 '60. (MIRA 13:7)

1. Giprogor.

(Peat machinery)

NIKITIN, I. (Yuzhno-Sakhalinsk); SILKIN, A., obshchestvennyy kontroler;
GARDEVA, V., inzh.-tekhnolog; KHAKHMALEV, V.; TSIMEALYUK, V., inzh.tekhnolog; RADZHAELI, A. (Kirovabad)

Letters to the editor. Obshchestv.pit. no.10:44-45 0 '62.

(MIRA 15:11)

1. Otdel obshchestvennogo pitaniya Zheleznodorozhnogo upravleniya
rabochego snabzheniya Kazakhskoy zheleznoy dorogi (for Gardeva).

2. Otdel obshchestvennogo pitaniya Kurortprodtorga, g. Nal'chik
(for TSimbalyuk).

(Restaurants, lunchrooms, etc.)

ACC NR: AP7002393

SOURCE CODE: UR/0020/66/171/005/1201/1204

AUTHOR: Karapetyan, N. V.; Krakhmaleva, I. N.; Krasnovskiy, A. A. (Corresponding member AN SSSR)

ORG: Institute of Biochemistry im. A. N. Bakh, Academy of Sciences SSSR (Institut biokhimii Akademii nauk SSSR)

TITLE: Effect of heat inactivation on differential absorption spectra of purple photosynthesizing bacteria

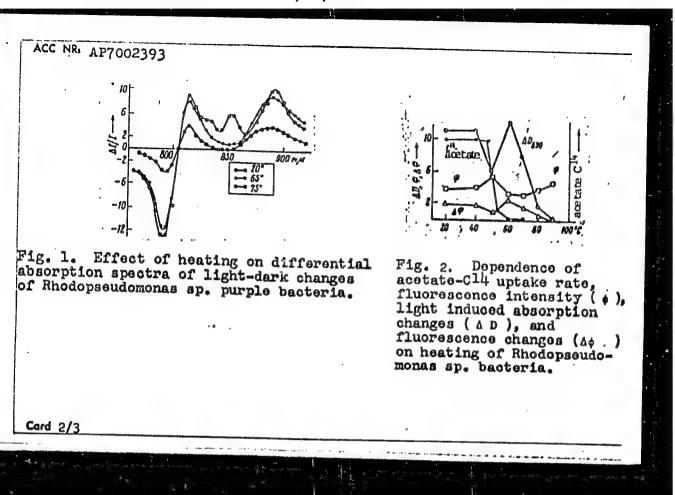
SOURCE: AN SSSR. Doklady, v. 171, no. 5, 1966, 1201-1204

TOPIC TAGS: bacteria, chlorophyll, temperature dependence, absorption spectrum, fluorescence spectrum

ABSTRACT: In experiments on Rhodopseudomonas sp. and Chromatium purple bacteria, the effect of heat inactivation on bacteriochlorophyll was determined by differential absorption spectra, photosynthesis rate. (acetate-Cl4 uptake) and absorption and fluorescence spectra. Bacterial suspensions in a culture medium were heated to temperatures of 40 to 90 c and then were subjected to freezing (-1960) and thawing. Differential spectra were measured following a five sec "light period" and a one min "dark period." Absorption spectra were measured with an SF-10 spectrophotometer and fluorescence spectra were measured with a

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VDC: 581.132



ACC NR: AP7002393

spectrofluorimeter assembled by Yu. Ye. Yerokhin in the laboratory. Findings indicate that photosynthetic activity is not affected by heating at 50c, but drops sharply at 55c and is completely depressed at 600. At 600 the absorption and fluorescence spectra are not affected, but at 70° a change in the bacteriochlorophyll takes place as expressed by reduced absorption at 890 mr and increased fluorescence at 910 mr. Heating to 80c and higher produces significant absorption and fluorescence spectra changes. The differential spectra (see Fig. 1) show that the dependence of absorption changes at 790, 810, 850 and 890 mr is A possible explanation is offered for the high sensitivity of photosynthesis to heat. Heat inactivates some of the photosynthetic enzyme reactions and this leads to an accumulation of photochemically changed pigment molecules due to blocking of electron transfer chains, which in turn leads to a gradual breakdown of the pigment-protein complex and photoreactivity. The authors express their thanks to Ye. N. Kondrat'yeva for supplying the bacterial cultures. has: 4 figures.

SUB CODE: 06/ SUBM DATE: 29Aug66/ ORIG REF: 008/ OTH REF: 004

Card 3/3

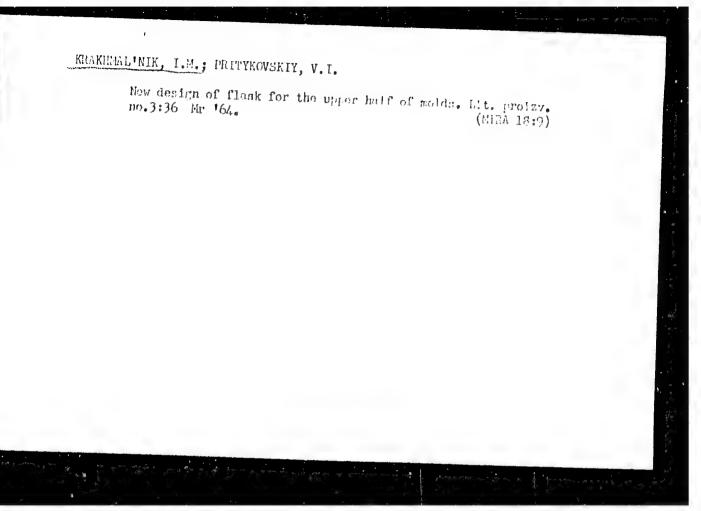
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Keyidan Rimilrov, L. L.

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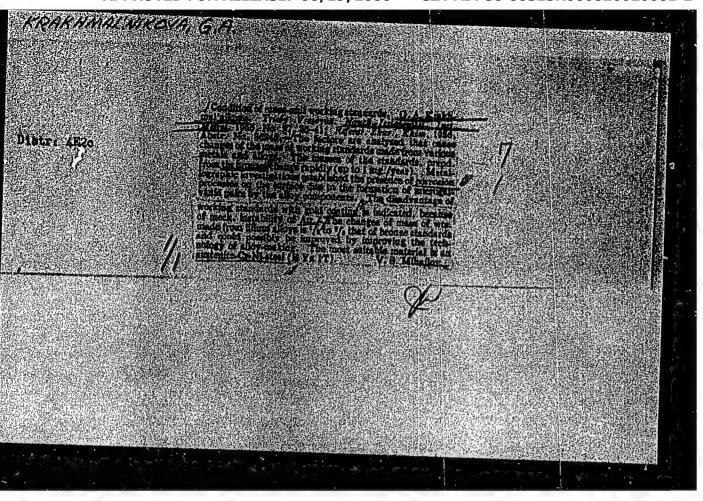
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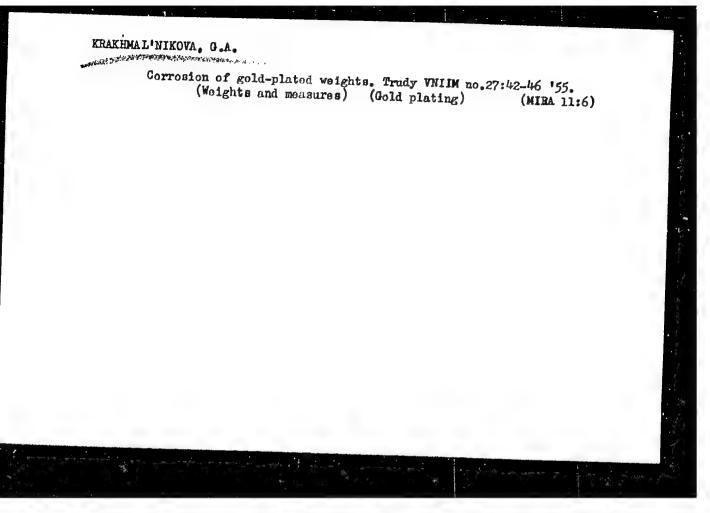


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SOV/58-59-9-20020

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 9, p 84 (USSR)

AUTHOR:

Gordov, A.N., Krakhmal'nikova, G.A., Ergardt, N.N.

TITLE:

A Horizontal Furnace for Obtaining Temperatures up to 1,500°C in an Air Combustion-Chamber

PERIODICAL:

Tr. Vses. n.-i. in-ta metrol., 1958, Nr 35(95) pp 92 - 94

ABSTRACT:

The furnace can serve for the calibration of operating Pt-PtRh thermocouples up to 1,500°C. Fundamentally, it consists of two coaxial tubes. The inner tube (of Al203) serves as the combustion chamber, while the outer tube (of BeG2) carries the heating winding (of Mo wire with a cross section of 0.2 mm), operating in an atmosphere of refined Ar, supplied under a pressure of 0.02 atm. The power of the heater is 5 kw, and the voltage of the alternating current is 220 V. The furnace provides heating up to 1,500°C for two hours. Temperature fluctuations in the center of the furnace do not exceed + 4°C over a distance of 7 cm.

B.I. Pilipchuk

Card 1/1

BOYALSKIY, L.A.; GORDOV, A.N.; IOSEL'SON, G.L.; KANDYBA, V.V.; KIRENKOV, I.I.; KOVALEVSKIY, V.A.; KRAKHMAL'NIKOVA, G.A.; LAPINA, E.A.; TARAYANTS, K.G.

Using the photoelectric method for precise work in the field of optical pyrometry. Trudy VNIIM no.36:23-32 '58. (MIRA 11:11) (Pyrometry)

s/196/62/000/008/009/017 E032/E514

Kirenkov, I.I. and Krakhmal'nikova, G.A. AUTHORS:

TITLE: A study by the photoelectric method of the

horizontal model of a black body at the temperature

of solidification of gold

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika,

no.8, 1962, 2, abstract 8V8. (Tr. in-tov Kom-ta

standartov, mer i izmerit, priborov pri Sov.Min.SSSR,

1961, no.51(111), 98-109)

Describes the apparatus and the photoelectric method TEXT: of brightness calibration of standard temperature lamps in various parts of the visible region of the spectrum. measurements were carried out with the spectrometric apparatus CTIK-! (SPK-1) and the horizontal model of a black body. The brightness of the lamp was equalized with the brightness of the emitting cavity of the black body at the temperature of equilibrium between liquid and solid gold (1063°C). The current through the lamp was measured at the same time. The accuracy of the calibration is analysed and the possible experimental errors

Card 1/2

A study by the photoelectric ... S/196/62/000/008/009/017 E032/E514

are discussed. The results of calculations of the various errors Δ T°C are given in a table. 4 figures, 5 references.

ASSOCIATION: VNIIM, Leningrad

[Abstractor's note: Complete translation.]

Card 2/2

S/115/62/000/005/001/006 E032/E414

AUTHORS: Krakhmal'nikova, G.A., Kirenkov, I.I.

TITLE: Spectropyrometric apparatus at VNIIM

PERIODICAL: Izmeritel'naya tekhnika, no.5, 1962, 18-19

The spectropyrometric apparatus CM-4K (SP-4K) was designed for fundamental metrological work at high temperatures. A detailed description of it has been given previously by V.V.Kandyba, V.A.Kovalevskiy and G.L.Iosel'son (DAN SSSR, v.4, 1956, 108; Izmeritel'naya tekhnika, no.2, 1956) and V.Ye.Finkel'shteyn and N.G.Starunov (Pribory i tekhnika eksperimenta, no.3, 1960). It is based on the null-point modulation method of brightness equalization. It is being used to set up a temperature scale with a maximum possible accuracy. The sensitivity threshold in the spectral region 0.47 to $1\,\mu$ is 0.02 to 0.05° with a bandwidth of 0.01 to 0.03 μ , source temperature of 1063°C and a measuring-circuit time constant of The SP-4K apparatus incorporates a new modulator 5 sec. developed at KhGIMIP and described by V.A.Kovalevskiy (Pribory i tekhnika eksperimenta, no.3, 1959). Special steps were taken to Card 1/2

Spectropyrometric apparatus ...

S/115/62/000/005/001/006 E032/E414

exclude scattered radiation in the monochromator and in the external optics, and to ensure convenient and reliable adjustment of all the optical devices. These improvements are said to ensure the "required accuracy of standardization of the temperature scale".

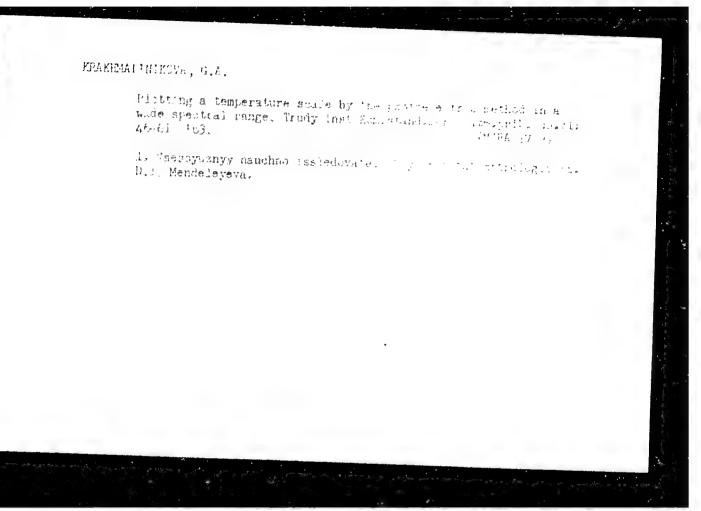
Card 2/2

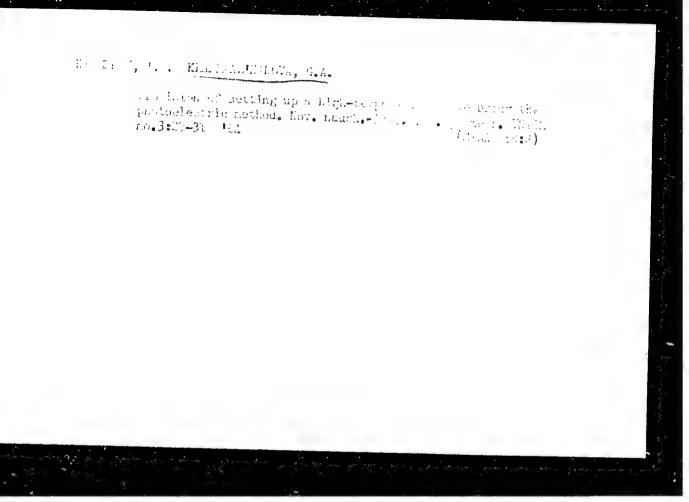
KIRENKOV, I.I.: PLAKETAL NIKOVA, G.A.

Spectrosymmeter unit for providing a temperature scale by means of the photoelectric method, frudy inct.Kom.stand.mer i izm.prib. no. 71:30-46 %.

Absorption light filters and in temperature measurements in a wide spectral range, Ibid :71 77 (MIRA 1717)

1. Vsesoyuznyy nauchno-isa sai wate tokiy insult the trologic is. D.I.Mendeleyeva.





APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020001-2"

SKVURTSOVA, L.I.; KRAKHMAL'NIKOVA, G.Kh.; FASTOVSKAYA, R.M.

Shereshevskii's syndrome observed in patients with toxoplasmosis.

Probl. endok. i gorm. 10 no.6:60-61 N-D '64. (MIRA 18:7)

1. Kafedra infektsionnykh bolezney (zav. - prof. L.K.Korovitskiy). kafedra akusherstva i ginekologii lechebnogo fakul'teta (zav. - prof. A.I.Malinin), kafedra gospital'noy terapii pediatricheskogo i stomatologicheskogo fakul'tetov (zav. - prof. A.A.Ors) Odesskogo meditsinskogo instituta imeni Pirogova i l-ya Odesskaya gorodskaya infektsionnaya bol'nitsa (glavnyy vrach L.T. Zhidovlenko).

AUTHOR: Krakhmal'nikova, M. I. 50-58-3-7/22

TITLE: An Extraordinary Foehn on the Black Sea Coast of

Caucasia (Isklyuchitel'nyy fen na Chernomorskom

poberezh'ye Kavkaza)

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 3, p. 38 (USSR)

i Gidrologiya, 1958, Nr 3, p. 38 (USS

.____

ABSTRACT: From April 15 to 17, 1957 a foehn of extraordinary strength was observed in the regions of Poti and Batumi. The following

conditions contributed to the formation of the foehn winds in this period: Cyclones from the Mediterranean were

displaced to the Black Sea and further toward north-east. Behind the Caspian Sea a powerful crest of anticyclones formed which contributed to the displacement of the dry flood from east to south-east. When crossing the mountain chains of Caucasia the air masses warmed up adiabatically and consequently the temperature abruptly increased and the

relative humidity decreased. From the east of the

Mediterranean a high-altitude frontal zone passed. A power-

ful high-altitude crest shifted above the eastern regions

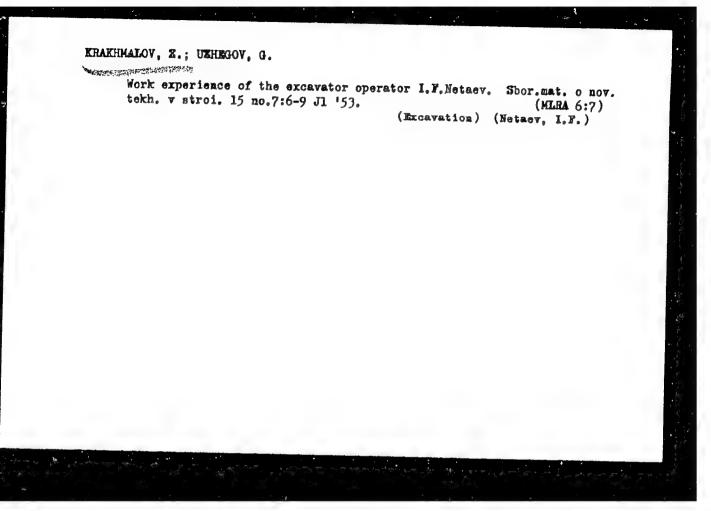
Card 1/2 of Asia Minor as well as above the Caucasus and also

An Extraordinary Foehn on the Black-Sea Coast of Caucasia 50-58-3-7/22

extended to the southern regions of the Black Sea. The crest was directed to the region of the Caspian Sea and the Aral Sea. The heat advection at the heights developed coming from the regions of Mesopotamia and Arabia. In Batumi the air temperature on April 16 rose to 38,300 and exceeded the absolute maximum of several years by 7.3°C. In Poti the air temperature on April 16 attained 35.10C (2,0°C heigher than the absolute maximum of several years). The 24-hour amplitude of the air temperature on April 16 in Batumi was 23,9°C and in Poti 16,3°C. At the same time with the abrupt increase in air temperature a decrease in the relative humidity was observed. On April 16 at 1 p.m. the relative humidity in Batumi dropped to 8 % and in Poti to 24 %. The 24-hour amplitude of relative humidity in Batumi was 55 % and in Poti 20 %. During the foehn weak eastern winds prevailed in Batumi. In Poti strong east winds were observed which attained 17 m/sec. The strong winds in Poti were connected with orographic conditions of the region.

1. Wind--USSR 2. Atmosphere--Temperature 3. Meteorology

Card 2/2



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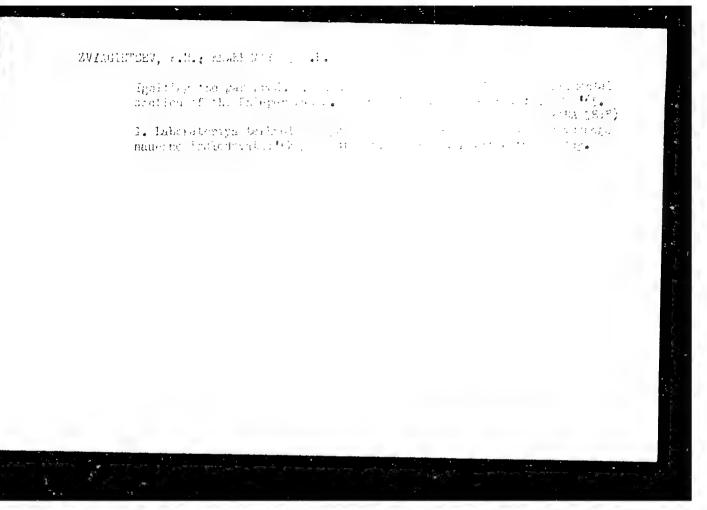
BURBEL', A.N., inzhener; KRAKHMALOV, E.A., inzhener.

Innovators of the Stalingrad hydropower development. Mekh.trud.rab. 7 no.9: 34-35 S '53. (MLRA 6:9) (Stalingrad hydroelectric power station) (Earthmoving machinery)

BURBEL', A.N., inzhener; KRAKHMALOV, Z.A., inzhener.

Driving of sheet piling in the Statingred hydroelectric power station project.
Biul.stroi.tekh. 10 no.12:8-9 Jl *53.

(Sheet piling)



Kiekhmalych, P.F.

PITIN, R.N.; MIRINGOF, N.S.; KRAKHMALYUK, P.F.

Results of cold tests in the gas producer No.1 at the Shatsk gasification station "Podzemgaz." Podzem.gaz.ugl. no.3:38-43 157.

1. Institut goryuchikh iskopayemykh imeni G.M.Krzhinzhanovskogo Akademii nauk SSSR 1 Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut podzemnoy gazifikatsii ugley.

(Coal gazification, Underground)

KRAKHMALYUK, P.F.; LEVANEVSKIY, V.S.; MIRINGOF, H.S.; MUSINOV, G.O.; PITIN, R.N.; FARBEROV, I.L.

Results of the study of gas leakage from gas producer No.1 at the Shatskaya "Podzemgaz" Station. Podzem. gaz. ugl. no.3: 23-29 158. (MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz i Institut goryuchikh iskopayemykh im. G.M. Krzhizhanovskogo AN SSSR.

(Moscow Basin -- Coal gasification, Underground)

NUSINOV, G.O., doktor tekhn. nauk; MIRINGOF, N.S., kand. tekhn. nauk; ERUSHTEYN, N.Z., kand. tekhn. nauk; KRAKHMALYUK, P.F.

Hydraulic fracturing of a coal seam under an increased rate of water injection and an increased distance between boreholes on an experimental gas generator at Shatskoye station. Nauch. trudy VNIIPodzemgaza no.8:59-69 '62. (MIRA 16:6)

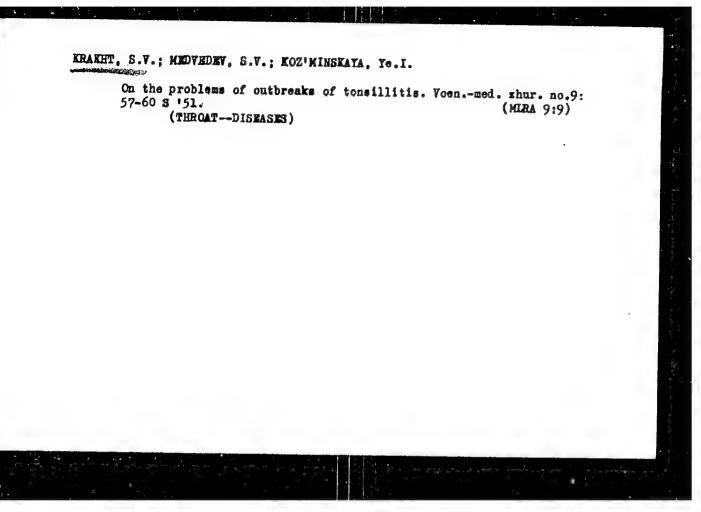
l. Laboratoriya gazifikatsii burykh ugley Vsesoyuznogo nauchnoissledovatel'skogo instituta podzemnoy gazifikatsii ugley. (Moscow Basin—Coal gasification, Underground)

KRAKHOTIN, N. F., Cand Agr Sci -- (diss) "Bees of the Kazakhstan Altay, their economicobiological nature, and the way to improve them." Alma-Ata, Mapping Enterprises of the Ministry of Agriculture Azakh SSk, 1960. 20 pp; (Committee of Higher and Secondary Specialist Education under the Council of Ministers Kazakh SSR, Alma-Ata Zooveterinary Inst); 170 copies; price not given; (KL, 28-60, 163)

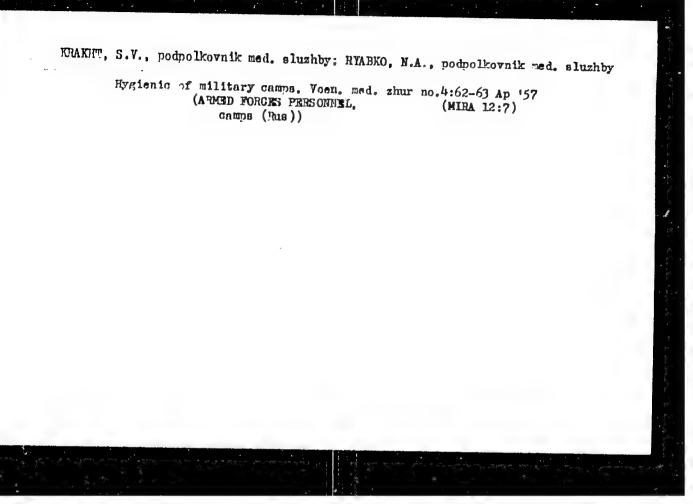
BERKOVUKSY, V.S.; GUN, G.Ya.; KRAKHT, V.B.; KRAKHT, N.G.

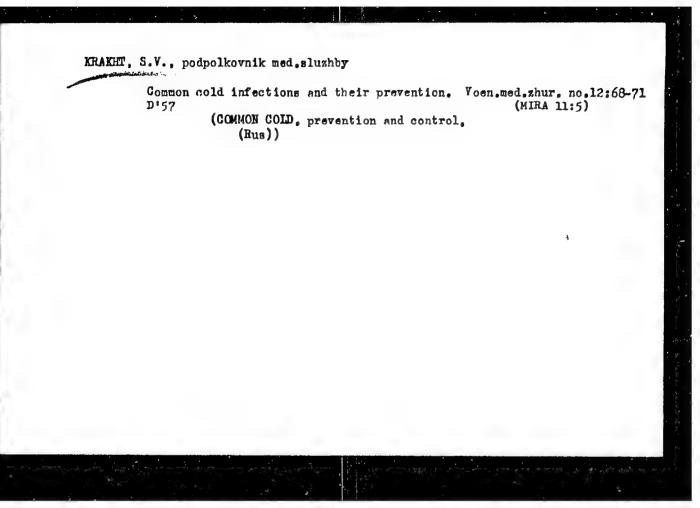
Envestigating plastic flow in passes in conditions of plain strain. Izv. vys. ucheb. zav.; chern. met. 8 no. 2:123-127 155. (MIRA 18.4)

I. Moskovskiy institut stali i splavov.



Fathogenesis of primary tonsillitis. Vrach.delo no.11:1183-1186
H '56. (TOHSILS--DISEASES)





ALEKSANDROV, N.I.; GEFEN, N.Ye.; YEGOROVA, N.B.; KREYNIN, L.S.; SERGEYEV, V.M.; MASLOV, A.I.; SMIRNOV, M.S.; KRAKHT, S.V.; BUDAK, A.P.; GEFEN, G.Ye.

Development of a method for aerosol immunization against typhoid fever and dysentery. Voen.-med. zhur. no.5:54-59 My '61. (MIRA 14:8)

(TYPHOID FEVER) (DYSENTERY) (AEROSOIS)

KRAKHT, S.V., polkovnik meditsinskoy sluzhby, kand.med.nauk; KOTSANEV, V.N., gvardii podpolkovnik meditsinskoy sluzhby

Atypical course in dysentery. Voen.-med. zhur. no.5:60-61 My 161.
(MIRA 14:8)

KRAKHT, S.V., polkovnik med.sluzhby, kand.med.nauk

Preliminary results of aerogenic immunization against intestinal infections. Voen. med. zhur. no.10:68-69 0 '61. (MIRA 15:5)

(TYPHOID FEVER) (DYSENTERY) (VACCINATION)

KRAKHT, S.V., polkovnik meditsinskoy sluzhby, kand.mod.nauk; AMIHOV, M.S., mayor meditsinskoy sluzhby

Causes of repeated hospitalization of dysentery patients. Voen.-med. zhur. no.8:75-77'62. (MIRA 16:9) (DYSENTERY) (MEDICINE, MILITARY)

BERKOVSKEY, V.S.; GUN, G.Ya.; KRAKHT, V.B.; KRAKHT, N.G.

Unvestigating plastic flow in passes in conditions of plain strain. Izv.vys.ucheb.zav.; chern. met. 8 no.48123-127 155. (MIRA 18:4)

I. Moskovskiy institut stali i spiavov.

HUNGARY/Physical Chemistry - Electrochemistry

B-12

Abs Jour

KRAKIN, I.

: Ref Zhur - Khimiya, No 7, 1958, 20901

Author

: I. Rusnak, K. Fukker, I. Krakik.

Inst

: Academy of Sciences of Hungary.

Title

: Polarographic Study of High Molecular Substances by

Maximum Supression Method.

Orig Pub

: Acta chim. Acad. sci. hung., 1958, 9, No 1-4, 49-57

Abstract

: A more detailed report on work published earlier

(RZhKhim, 1956, 54683).

Card 1/1

KRAKINOVSKAYA, Ye. M.

"Development of the Theory of Physical Antiseptics in Russian Surgery." Sub 20 Nov 51, Central Inst for the Advanced Training of Physicians.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

- 1. KRAKIMOVSKAYA, YE.M.
- 2. USSR (600)
- 4. Dobroslavin, Aleksei Petrovich, 1842-1889
- 7. Alakesi Petrovich Dobroslavin and the surgical clinic, Sov. zdrav. 12 no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

KRAKINOVSKAYA, Ye.M., kandidat meditsinskikh nauk (Moskva)

N.I.Pirogov and the problem of prevention of surgical infection.

Klin. med. 32 no.8:82-89 Ag '54. (MLRA 7:10)

(ANTISEPSIS AND ASEPSIS, history,

in Russia, contribution of N.I.Pirogov)

(PIROGOV, NIKOLAI IVANOVICH, 1810-1881)